

**What is Claimed:**

1. A composition for inhibition of prostate tumor cell growth comprising 12-O-tetradecanoylphorbol-13-acetate and a retinoid administered together or separately in  
5 pharmaceutically acceptable carriers or diluents.
2. A composition for treatment of prostate cancer in a human comprising 12-O-tetradecanoylphorbol-13-acetate and a retinoid administered together or separately in pharmaceutically acceptable carriers or diluents.
- 10 3. A method of inhibiting prostate tumor cell growth comprising contacting said cells with the composition of claim 1 so that prostate tumor cell growth is inhibited.
4. A method of treating prostate cancer in human  
15 comprising administering to said human a therapeutically effective amount of the composition of claim 1.
5. A composition for inhibition of prostate tumor cell growth comprising 12-O-tetradecanoylphorbol-13-acetate and paclitaxol administered together or separately in  
20 pharmaceutically acceptable carriers or diluents.
6. A composition for treatment of prostate cancer in a human comprising 12-O-tetradecanoylphorbol-13-acetate and paclitaxol administered together or separately in pharmaceutically acceptable carriers or diluents.
- 25 7. A method of inhibiting prostate tumor cell growth comprising contacting said cells with the composition of claim 5 so that prostate tumor cell growth is inhibited.

8. A method of treating prostate cancer in human comprising administering to said human a therapeutically effective amount of the composition of claim 5.